

AUG 19 2010

AMENDMENT UNDER 37 C.F.R. § 1.116  
Application No : 10/559,381

Attorney Docket No.: Q91866

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (currently amended): A valve seal intended for a fluid product aerosol dispenser, wherein the said seal includes an elastomer based upon ethylene propylene (EP) and/or ethylene propylene diene monomer (EPDM), and a mineral filler based upon quartz ( $\text{SiO}_2$ ) and Kaolinite ( $\text{Al}_4[(\text{OH})_8\text{Si}_4\text{O}_{10}]$ ); and

wherein the mineral filler does not comprise feldspar;

wherein the valve seal is made of a one-piece integral structure; and

wherein the valve seal is does not include a rigid insert.

2. (original): A seal according to claim 1, in which the mineralogical composition of the mineral filler includes between 65 % and 95 %, preferably 80 %, of quartz, and between 5 % and 35 %, preferably about 20 %, of Kaolinite.

3. (previously presented): A seal according to claim 1, in which the chemical composition of the mineral filler includes between 3% and 15%, preferably about 8 %, of  $\text{Al}_2\text{O}_3$ , and between 75 % and 95 %, preferably about 87 %, of  $\text{SiO}_2$ .

4. (previously presented): A seal according to claim 1, in which the mineral filler has a pH greater than 6, preferably between about 7 and 8.

AMENDMENT UNDER 37 C.F.R. § 1.116  
Application No : 10/559,381

Attorney Docket No.: Q91866

5. (previously presented): A seal according to claim 1, in which the mineral filler has an average particle size of between 1.5 and 4 microns, preferably about 2.2 microns.

6. (previously presented): A seal according to claim 1, in which the said seal, before its assembly into a fluid product aerosol dispenser, is subjected to a surface chlorination treatment.

7. (original): A seal according to claim 6, in which the said seal is immersed in a solution containing water, hydrochloric acid and bleach.

8. (previously presented): A measuring-out valve for a fluid product aerosol dispenser, characterised in that it includes at least a valve seal according to claim 1.

9. (previously presented): A dispenser for dispensing a fluid product, that includes a reservoir containing a fluid product and a propellant gas, and a valve, preferably a measuring-out valve, mounted on the said reservoir, characterised in that the said valve includes at least a valve seal according to claim 1.

10. (previously presented): A dispenser according to claim 9, in which the said valve includes a valve element sliding in a valve body with the interposition of the valve seal.

11. (previously presented): A dispenser according to claim 9, in which the said propellant gas includes HFC-134a gas and/or HFC-227 gas.

AMENDMENT UNDER 37 C.F.R. § 1.116  
Application No.: 10/559,381

Attorney Docket No.: Q91866

12. (previously presented): A dispenser according to claim 9, in which the reservoir also contains alcohol, and ethanol in particular.

13. (previously presented): A manufacturing process for a valve seal intended for a fluid product aerosol dispenser, wherein the process includes the following stages:

- creation of a one-piece integral structure seal that includes an elastomer based upon ethylene propylene (EP) and/or ethylene propylene diene monomer (EPDM), and a mineral filler based upon quartz ( $\text{SiO}_2$ ) and kaolinite ( $\text{Al}_4[(\text{OH})_8\text{Si}_4\text{O}_{10}]$ ) and wherein the mineral filler is created without feldspar; and

- submission of this seal to a surface chlorination treatment;  
wherein the valve seal is does not include a rigid insert.

14. (original): A process according to claim 13, in which the said surface chlorination treatment includes immersing the seal in a solution containing water, hydrochloric acid and bleach.

15. (previously presented): A valve seal for an aerosol dispenser, wherein the valve seal comprises:

an elastomer based upon ethylene propylene (EP) and/or ethylene propylene diene monomer (EPDM); and  
a mineral filler based upon quartz ( $\text{SiO}_2$ ) and Kaolinite ( $\text{Al}_4[(\text{OH})_8\text{Si}_4\text{O}_{10}]$ ); and  
wherein the mineral filler does not comprise feldspar;

AMENDMENT UNDER 37 C.F.R. § 1.116  
Application No : 10/559,381

Attorney Docket No.: Q91866

wherein the valve seal is made of a one-piece integral structure; and  
wherein the valve seal is does not include a rigid insert.

16. (previously presented): An aerosol dispenser for dispensing a fluid product, the aerosol dispenser comprising:

a reservoir containing a fluid product and a propellant gas;

a valve mounted on the said reservoir;

wherein said valve comprises at least one valve seal according to claim 15.

17-18. (canceled).